

# XUVF180M12

photoelectric sensor - thru-beam - Sn 0.18 m -  
NO or NC - M12 connector



## Main

|                                                |                                                      |
|------------------------------------------------|------------------------------------------------------|
| Range of product                               | Osiris                                               |
| Series name                                    | Application assembly                                 |
| Electronic sensor type                         | Photo-electric sensor                                |
| Specific application of photoelectric detector | Object                                               |
| Sensor name                                    | XUV                                                  |
| Sensor design                                  | Frame                                                |
| Material                                       | Metal                                                |
| Enclosure material                             | Painted aluminium                                    |
| Detection system                               | Thru beam                                            |
| Emission                                       | Infrared                                             |
| Minimum object diameter for detection          | 4 mm                                                 |
| Way dimensions of optical frame                | 200 x 180 mm                                         |
| Passing speed of object                        | 0.1...15 m/s , minimum detected object diameter:4 mm |
| Wiring technique                               | 3 wires                                              |
| Type of output signal                          | Discrete                                             |
| Output type                                    | Solid state                                          |
| Discrete output type                           | PNP or NPN                                           |
| Output function governance                     | Light or dark programmable                           |
| Add on output                                  | With alarm output                                    |
| Electrical connection                          | 1 male connector M12 4 pins                          |
| Supply circuit type                            | DC                                                   |
| [Us] rated supply voltage                      | 24 V DC with reverse polarity protection             |
| Switching capacity in mA                       | ≤ 100 mA overload and short-circuit protection       |
| Switching frequency                            | ≤ 500 Hz                                             |
| Time delay range                               | 0...5 s off-delay                                    |

## Complementary

|                       |                                             |
|-----------------------|---------------------------------------------|
| Lens material         | PC                                          |
| Status LED            | 1 LED green output state<br>1 LED red alarm |
| Supply voltage limits | 18...30 V DC                                |
| Voltage drop          | < 2 V closed state                          |
| Current consumption   | ≤ 400 mA no-load                            |
| Delay first up        | ≤ 100 ms                                    |
| Delay response        | < 1 ms                                      |
| Delay recovery        | < 1 ms                                      |
| Setting-up            | Sensitivity adjustment with potentiometer   |
| Depth                 | 25 mm                                       |
| Height                | 265 mm                                      |
| Width                 | 180 mm                                      |
| Product weight        | 1.2 kg                                      |

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## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CE<br>cULus                                                             |
| Ambient air temperature for operation | 0...60 °C                                                               |
| Ambient air temperature for storage   | -20...80 °C                                                             |
| Immunity to ambient light             | ≤ 4000 lux sunlight<br>≤ 400 lux incandescent light                     |
| Vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27                   |
| IP degree of protection               | IP65 conforming to IEC 60529                                            |
| RoHS EUR conformity date              | 0724                                                                    |
| RoHS EUR status                       | Compliant                                                               |